

GP-303320

TIRE PRESSURE MONITORING SYSTEM ALGORITHM FOR DUAL  
PLACARD APPLICATIONS

## ABSTRACT OF THE DISCLOSURE

A dual placard algorithm implemented in a tire pressure monitoring system which responds to tire inflation changes caused by the driver, and is thereby able to allow the tire pressure monitoring system to  
5 detect low tire pressure in dual placard applications. The algorithm automatically sets the threshold appropriate for a high placard pressure recommendation in the event the driver has inflated the rear tires to the high placard pressure recommendation. If the driver subsequently changes the rear tire pressure to the low placard pressure recommendation, the dual placard  
10 algorithm alerts the driver to manually enter a learn mode, whereupon the algorithm automatically re-sets the threshold to that appropriate for the low placard pressure recommendation only if the driver has deflated both rear tires to the low placard tire pressure recommendation.